WEAR CONTAMINATION **FLUID CONDITION**

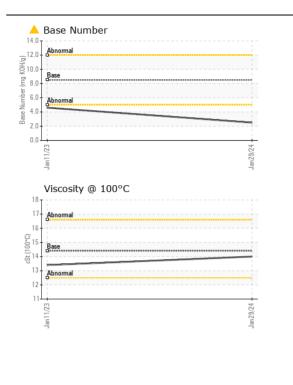
NORMAL NORMAL ABNORMAL

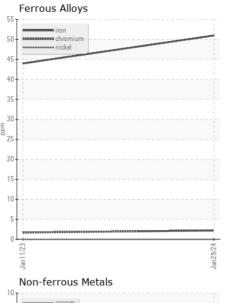
GLENN LEROY MARTIN-TLD-GLENN TRANSPORT

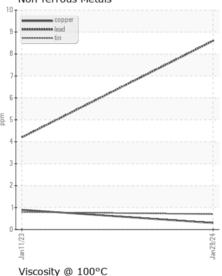
NAVISTAR 3019287

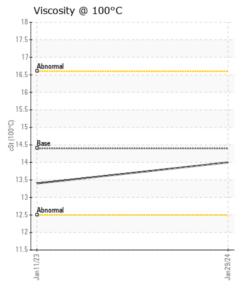
Component Diesel Engine

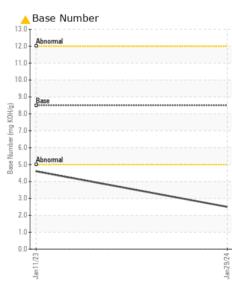
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		NL0001994	NL0000881	
	Sample Date		Client Info		29 Jan 2024	11 Jan 2023	
	Machine Age	mls	Client Info		375723	237846	
	Oil Age	mls	Client Info		61055	39789	
	Filter Age	mls	Client Info		61055	39789	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	NORMAL	
WEAD.			AOTA DE 40E	400	=4	4.4	
VEAR	Iron	ppm	ASTM D5185m		51	44	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		2	2	
	Nickel	ppm	ASTM D5185m	>4	0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		6	5	
	Lead	ppm	ASTM D5185m	>40	9	4	
	Copper	ppm	ASTM D5185m		<1	<1	
	Tin	ppm	ASTM D5185m	>15	<1	<1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>25	10	7	
	Potassium	ppm	ASTM D5185m	>20	1	4	
	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.9	0.5	
	Nitration	Abs/cm	*ASTM D7624	>20	14.1	11.5	
	Sulfation	Abs/.1mm	*ASTM D7415		31.3	24.4	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.2	NEG	NEG	
THIR CONDITION	0		AOTA DEADE	450			
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	1	
The BN level is low. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		19	3	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m	100	69	67	
	Manganese	ppm	ASTM D5185m	450	<1	<1	
	Magnesium	ppm	ASTM D5185m		923	952	
	Calcium	ppm			1069	1113	
	Phosphorus	ppm	ASTM D5185m		1062	940	
	Zinc	ppm	ASTM D5185m	1350	1300	1263	
	Sulfur	ppm	ASTM D5185m		2568	3033	
	Oxidation	Abs/.1mm	*ASTM D7414		33.2	22.0	
	Base Number (BN)	mg KOH/g			<u> </u>	4.6	
	Visc @ 100°C	cSt	ASTM D445	14.4	14.0	13.4	













Certificate L2367

Laboratory Sample No.

: NL0001994 Lab Number : 06082954 Unique Number: 10870399 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Feb 2024 : 08 Feb 2024 **Tested**

: 09 Feb 2024 - Don Baldridge Diagnosed

KIRK NATIONALEASE - SHOP 81 RM

3885 W MICHIGAN AVE SIDNEY, OH US 45365

Contact: SARAH BLEININGER sarah_bleininger@knl.cc

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (937)498-9920